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```
1 0001 0 MODULE STR$RIGHT ( ! Extract a substr on the right
2 0002 0
3 0003 0 IDENT = '1-013' ! File: STRRIGHT.B32 Edit: RKR1013
4 0004 0
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY: String support library
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This module extracts a substring according to the
38 0038 1 BASIC-PLUS-2 syntax. It finds the substring of a main string
39 0039 1 starting at the character position specified by the input
40 0040 1 parameter and continues through the last character of the
41 0041 1 string. This substring is copied to the destination string.
42 0042 1
43 0043 1 ENVIRONMENT: User mode, AST level or not or mixed
44 0044 1
45 0045 1 AUTHOR: R. Will, CREATION DATE: 19-Feb-79
46 0046 1
47 0047 1 MODIFIED BY:
48 0048 1
49 0049 1 R. Will, 19-Feb-79: VERSION 01
50 0050 1 1-001 - Original
51 0051 1 1-002 - Change linkage and call to COPY routine. 15-mar-79
52 0052 1 1-003 - Change string linkages to start with STR$. JBS 04-JUN-1979
53 0053 1 1-004 - Change call to STR$COPY. JBS 16-JUL-1979
54 0054 1 1-006 - Define an aux variable to improve the code generated.
55 0055 1 JBS 11-OCT-1979
56 0056 1 1-007 - Change name to STR$, string cleanup. RW 31-Oct-79
57 0057 1 1-008 - Change to new interlock macros. JBS 06-NOV-1979
```

STR\$RIGHT
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```
: 58      0058 1 1-009 - Use string interlocks from CALL entry. RW 15-Nov-79
: 59      0059 1 1-010 - String speedup, remove edit 9. RW 8-Jan-1980
: 60      0060 1 1-011 - Enhance to recognize additional classes of descriptors by
: 61      0061 1 using $STR$GET_LEN_ADDR to extract length and address of
: 62      0062 1 1st data byte from descriptor. Remove all string interlocking
: 63      0063 1 code. RKR 27-APR-81
: 64      0064 1 1-012 - Speed up code. RKR 7-OCT-1981.
: 65      0065 1 1-013 - Use STR$COPY R R8 for copy operation. Use $STR$SIGNAL_FATAL
: 66      0066 1 instead of $STR$CHECK_STATUS. RKR 18-NOV-1981.
: 67      0067 1 !--
: 68      0068 1
: 69      0069 1 !<BLF/PAGE>
```



```
71 0070 1 |
72 0071 1 | SWITCHES:
73 0072 1 |
74 0073 1 |
75 0074 1 | SWITCHES ADDRESSING MODE
76 0075 1 | (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
77 0076 1 |
78 0077 1 |
79 0078 1 | LINKAGES:
80 0079 1 |
81 0080 1 |
82 0081 1 | REQUIRE 'RTLIN:STRLNK'; ! Use require file with string linkage
83 0266 1 |
84 0267 1 |
85 0268 1 | TABLE OF CONTENTS:
86 0269 1 |
87 0270 1 |
88 0271 1 | FORWARD ROUTINE
89 0272 1 | STR$RIGHT, ! Find the RIGHT of a str, CALL
90 0273 1 | STR$RIGHT_R8 : STR$JSB_RIGHT; ! Find the RIGHT of a str, JSB
91 0274 1 |
92 0275 1 |
93 0276 1 | INCLUDE FILES:
94 0277 1 |
95 0278 1 |
96 0279 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Declare PSECTs code
97 0374 1 |
98 0375 1 | REQUIRE 'RTLIN:STRMACROS'; ! use string macros to code
99 1291 1 |
100 1292 1 | LIBRARY 'RTLSTARLE'; ! STARLET library for macros and symbol
101 1293 1 |
102 1294 1 |
103 1295 1 | MACROS: NONE
104 1296 1 |
105 1297 1 |
106 1298 1 |
107 1299 1 | EQUATED SYMBOLS: NONE
108 1300 1 |
109 1301 1 |
110 1302 1 |
111 1303 1 | PSECT DECLARATIONS
112 1304 1 |
113 1305 1 |
114 1306 1 | DECLARE_PSECTS (STR);
115 1307 1 |
116 1308 1 |
117 1309 1 | OWN STORAGE: NONE
118 1310 1 |
119 1311 1 |
120 1312 1 |
121 1313 1 | EXTERNAL REFERENCES:
122 1314 1 |
123 1315 1 |
124 1316 1 | EXTERNAL ROUTINE
125 1317 1 | LIB$STOP, ! signal fatal errors
126 1318 1 | STR$COPY_R_R8 : STR$JSB_COPY_R ; ! Routine to do the copy
127 1319 1 |
```

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: 128
: 129
: 130

1320 1 EXTERNAL LITERAL
1321 1 STR\$ NORMAL
1322 1 STR\$_ILLSTRPOS;

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! Successful completion
! pos was - or > str length

**


```
132 1323 1 GLOBAL ROUTINE STR$RIGHT (          ! Extract a substr on the right
133 1324 1
134 1325 1     DEST_DESC,          ! Pointer to destination descriptor
135 1326 1     SRC_DESC,         ! Pointer to source descriptor
136 1327 1     CHAR_POS         ! First character to be included
137 1328 1
138 1329 1
139 1330 1     ) =
140 1331 1
141 1332 1 ++
142 1333 1 FUNCTIONAL DESCRIPTION:
143 1334 1     This routine extracts the characters starting at the
144 1335 1     character position in the source string specified by the input
145 1336 1     parameter and continuing through the last character of the
146 1337 1     source string and copies that substring
147 1338 1     to the destination string (by JSB to STR$COPY_R_R8) according
148 1339 1     to the syntax of the class of the destination string.
149 1340 1     If the input character position is < 2 then the entire source
150 1341 1     string is copied. If the input character position is > the
151 1342 1     length of the source string, then the destination string becomes
152 1343 1     a null string. It computes the RIGHT by JSBing to the JSB entry
153 1344 1     point.
154 1345 1
155 1346 1 FORMAL PARAMETERS:
156 1347 1
157 1348 1     DEST_DESC.wt.dx      pointer to destination string descriptor
158 1349 1     SRC_DESC.rt.dx       pointer to source string descriptor
159 1350 1     CHAR_POS.rl.r       character position in source to start
160 1351 1                      substring
161 1352 1
162 1353 1 IMPLICIT INPUTS:
163 1354 1
164 1355 1     NONE
165 1356 1
166 1357 1 IMPLICIT OUTPUTS:
167 1358 1
168 1359 1     NONE
169 1360 1
170 1361 1 COMPLETION CODES:
171 1362 1
172 1363 1     same as STR$RIGHT_R8
173 1364 1
174 1365 1 SIDE EFFECTS:
175 1366 1
176 1367 1     same as STR$RIGHT_R8 since it JSBs to that routine.
177 1368 1
178 1369 1 --
179 1370 1
180 1371 2 BEGIN
181 1372 2
182 1373 2 MAP
183 1374 2     SRC_DESC : REF $STR$DESCRIPTOR,
184 1375 2     DEST_DESC : REF $STR$DESCRIPTOR;
185 1376 2
186 1377 2 RETURN STR$RIGHT_R8 (DEST_DESC [0,0,0,0],
187 1378 2     SRC_DESC [0,0,0,0],
188 1379 2     ..CHAR_POS);
```

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; 189 1380 1 END;

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!End of STR\$RIGHT

.TITLE STR\$RIGHT
.IDENT \1-013\

.EXTRN LIB\$STOP, STR\$COPY_R_R8
.EXTRN STR\$_NORMAL, STR\$_ILCSTRPOS

.PSECT _STR\$CODE,NOWRT, SHR, PIC,2

.ENTRY STR\$RIGHT, Save R2,R3,R4,R5,R6,R7,R8
MOVL @CHAR_POS, R2
MOVQ DEST_DESC, R0
BSBW STR\$RIGHT_R8
RET

; 1323
; 1378
;
; 1380

52 0C BC 01FC 00000
50 04 AC 7D 00002
 0000V 30 0000A
 04 0000D

; Routine Size: 14 bytes, Routine Base: _STR\$CODE + 0000


```
191 1381 1 GLOBAL ROUTINE STR$RIGHT_R8 (      ! Extract a substr on the right
192 1382 1
193 1383 1     DEST_DESC,      ! Pointer to destination descriptor
194 1384 1     SRC_DESC,    ! Pointer to source descriptor
195 1385 1     CHAR_POS     ! First character to be included
196 1386 1
197 1387 1 ) : STR$JSB_RIGHT =
198 1388 1
199 1389 1 ++
200 1390 1 FUNCTIONAL DESCRIPTION:
201 1391 1
202 1392 1     This routine extracts the characters starting at the
203 1393 1     character position in the source string specified by the input
204 1394 1     parameter (where the first character in the string is at
205 1395 1     position 1) and continuing through the last character of the
206 1396 1     source string and copies that substring to the destination
207 1397 1     string (by JSB to STR$$COPY_R_R8) according
208 1398 1     to the syntax of the class of the destination string.
209 1399 1     If the input character position is < 2 then the entire source
210 1400 1     string is copied. If the input character position is > the
211 1401 1     length of the source string, then the destination string
212 1402 1     becomes a null string.
213 1403 1
214 1404 1 FORMAL PARAMETERS:
215 1405 1
216 1406 1     DEST_DESC.wt.dx    pointer to destination string descriptor
217 1407 1     SRC_DESC.rt.dx     pointer to source string descriptor
218 1408 1     CHAR_POS.rl.v      character position in src to start
219 1409 1                      substring
220 1410 1
221 1411 1 IMPLICIT INPUTS:
222 1412 1
223 1413 1     NONE
224 1414 1
225 1415 1 IMPLICIT OUTPUTS:
226 1416 1
227 1417 1     NONE
228 1418 1
229 1419 1 COMPLETION CODES:
230 1420 1
231 1421 1     S$$ NORMAL      Success
232 1422 1     STR$_ILLSTRPOS   Character position reference outside of string
233 1423 1     STR$_ILLSTRSPE   End pos < start pos, or length too long
234 1424 1     STR$_NEGSTRLEN   Negative length supplied, 0 used
235 1425 1     STR$_TRU         Truncation occurred in copying to destination
236 1426 1                      (Warning)
237 1427 1
238 1428 1 SIDE EFFECTS:
239 1429 1
240 1430 1     May signal:
241 1431 1     STR$_FATINTERR   Fatal internal error
242 1432 1     STR$_ILLSTRCLA   Illegal (or unsupported) string class
243 1433 1     STR$_INSVIRMEM   Insufficient virtual memory for
244 1434 1                      reallocation of dynamic string
245 1435 1
246 1436 1 --
247 1437 1
```

```
248 1438 2 BEGIN
249 1439 2
250 1440 2 LOCAL
251 1441 2     IN_LEN,           ! length of input string
252 1442 2     IN_ADDR,       ! address of 1st data byte of input str
253 1443 2     RETURN_STATUS, ! keep the status of this routine
254 1444 2     COPY_STATUS,    ! status returned from STR$COPY
255 1445 2     LENGTH;         ! length to be copied
256 1446 2
257 1447 2 MAP
258 1448 2     SRC_DESC : REF $STR$DESCRIPTOR,
259 1449 2     DEST_DESC : REF $STR$DESCRIPTOR;
260 1450 2
261 1451 2     RETURN_STATUS = 1 ;           ! Assume success to follow
262 1452 2
263 1453 2 !+
264 1454 2 ! compute length and address of 1st data byte of input string
265 1455 2 !-
266 1456 2     $STR$GET_LEN_ADDR ( SRC_DESC, IN_LEN, IN_ADDR ) ;
267 1457 2
268 1458 2 !+
269 1459 2 ! Compute the correct substring and call the COPY routine using
270 1460 2 ! the substring length and pointer. LENGTH is length to be skipped is
271 1461 2 ! the actual starting position (after testing for errors) - 1
272 1462 2 ! (which must be >= 0 and <= src len)
273 1463 2 !-
274 1464 2
275 1465 2     LENGTH =
276 1466 2     BEGIN
277 1467 2         IF .IN_LEN LSS .CHAR_POS - 1
278 1468 2         THEN
279 1469 2             BEGIN
280 1470 2                 RETURN_STATUS = STR$_ILLSTRPOS; ! input start to big
281 1471 2                 .IN_LEN           ! use srclen and
282 1472 2                 ! remember error
283 1473 2             END
284 1474 2         ELSE .CHAR_POS - 1
285 1475 2         END;
286 1476 2
287 1477 2     IF .LENGTH LSS 0 THEN
288 1478 2     BEGIN
289 1479 2         LENGTH = 0; ! input length is
290 1480 2         ! negative
291 1481 2         RETURN_STATUS = STR$_ILLSTRPOS; ! use 0 and remember
292 1482 2         ! error
293 1483 2     END;
294 1484 2
295 1485 2 !+
296 1486 2 ! copy to destination descriptor for srclen - (startpos - 1) starting
297 1487 2 ! srcptr + startpos - 1
298 1488 2 !-
299 1489 2     COPY_STATUS = STR$COPY_R_R8 ( .DEST_DESC,
300 1490 2         .IN_LEN - .LENGTH,
301 1491 2         CH$PLUS (.IN_ADDR, .LENGTH) );
302 1492 2
303 1493 2     IF .COPY_STATUS NEQ SS$ NORMAL
304 1494 2     THEN RETURN_STATUS = .COPY_STATUS; ! copy truncated, return
```


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: 305 1495 2
: 306 1496 2
: 307 1497 2
: 308 1498 2
: 309 1499 2
: 310 1500 1

\$STR\$SIGNAL FATAL (RETURN_STATUS);
RETURN .RETURN_STATUS;
END;

! truncate
! instead of previous status
! signal fatal errors
!End of STR\$RIGHT

.EXTRN STR\$ANALYZE_SDESC_R1

54		50	D0 00000	STR\$RIGHT R8::		
				MOVL	R0, R4	1381
		01	DD 00003	PUSHL	#1	1451
02	03	A1	91 00005	CMPB	3(SRC_DESC), #2	1456
		09	1A 00009	BGTRU	1\$	
50		61	3C 0000B	MOVZWL	(SRC_DESC), IN_LEN	
53	04	A1	D0 0000E	MOVL	4(SRC_DESC), IN_ADDR	
		0C	11 00012	BRB	2\$	
50		51	D0 00014	1\$: MOVL	SRC_DESC, R0	
	00000000G	00	16 00017	JSB	STR\$ANALYZE_SDESC_R1	
53		51	D0 0001D	MOVL	R1, R3	
		52	D7 00020	2\$: DECL	R2	1467
52		50	D1 00022	CPL	IN_LEN, R2	
		0C	18 00025	BGEQ	3\$	
6E	00000000G	8F	D0 00027	MOVL	#STR\$ ILLSTRPOS, RETURN_STATUS	1470
51		50	D0 0002E	MOVL	IN_LEN, LENGTH	1471
		03	11 00031	BRB	4\$	
51		52	D0 00033	3\$: MOVL	R2, LENGTH	1474
		09	18 00036	4\$: BGEQ	5\$	1477
		51	D4 00038	CLRL	LENGTH	1479
6E	00000000G	8F	D0 0003A	MOVL	#STR\$ ILLSTRPOS, RETURN_STATUS	1481
		51	C1 00041	5\$: ADDL3	LENGTH, IN_ADDR, R2	1491
		50	C3 00045	SUBL3	LENGTH, IN_LEN, R1	1490
50		54	D0 00049	MOVL	DEST_DESC, R0	1491
	00000000G	00	16 0004C	JSB	STR\$COPY R R8	
01		50	D1 00052	CPL	COPY_STATUS, #1	1493
		03	13 00055	BEQL	6\$	
6E		50	D0 00057	MOVL	COPY_STATUS, RETURN_STATUS	1494
10		6E	E8 0005A	6\$: BLBS	RETURN_STATUS, 7\$	1498
03		00	ED 0005D	CMPZV	#0, #3, RETURN_STATUS, #4	
		09	12 00062	BNEQ	7\$	
		6E	DD 00064	PUSHL	RETURN STATUS	
	00000000G	00	01 FB 00066	CALLS	#1, LIB\$STOP	
		50	8E D0 0006D	7\$: MOVL	RETURN_STATUS, R0	1499
			05 00070	RSB		1500

; Routine Size: 113 bytes, Routine Base: _STR\$CODE + 000E

: 311 1501 1
: 312 1502 1 END
: 313 1503 1
: 314 1504 0 ELUDOM

!End of module

PSECT SUMMARY

```
:
:      Name                Bytes                Attributes
:  _STR$CODE              127 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)
```

Library Statistics

```
:
:      File                ----- Symbols ----- Pages Processing
:                               Total   Loaded   Percent   Mapped   Time
:  _$255$DUA28:[SYSLIB]STARLET.L32;1    9776         7         0       581     00:00.8
```

COMMAND QUALIFIERS

```
:
:      BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:STRRIGHT/OBJ=OBJ$:STRRIGHT MSRC$:STRRIGHT/UPDATE=(ENH$:STRRIGHT)
```

```
: Size:          127 code + 0 data bytes
: Run Time:      00:05.8
: Elapsed Time:  00:18.6
: Lines/CPU Min: 15585
: Lexemes/CPU-Min: 33730
: Memory Used:   82 pages
: Compilation Complete
```


0215 AH-BT13A-SE
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